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# MULTIMEDIA UNIVERSITY FINAL EXAMINATION

**TRIMESTER 1, 2017/2018 SESSION** 

## TIS2151 – WEB APPLICATION DEVELOPMENT TIC2211 – INTERNET COMPUTING

(All sections / Groups)

12 October 2017 2.30 p.m. – 4.30 p.m. (2 Hours)

### INSTRUCTIONS TO STUDENTS

- 1. This Question paper consists of 7 pages with 4 Questions only.
- 2. Answer all **FOUR** questions. All questions carry equal marks and the distribution of the marks for each question is given.
- 3. Please print all your answers in the answer booklet for each questions answered.

a)	Fill i	n the blanks in each of the following statements regarding Internet and W:
		[2 marks]
	i.	When the user clicks a hyperlink, a locates the requested webpage and sends it to user's web browser.
	ii.	HTML5 is a language designed to specify the content and structure of webpages.
	iii.	Web-based applications are multitier applications. The tier maintains the application's data and typically stores data in a relational database management system.
	iv.	The standard specifies data formats, which programs can use to interpret data correctly.
	HIMI	f the new features of HTML5 is the introduction of new <i>input types</i> for form. Give one advantage of the new <i>input types</i> over the existing <i>input</i> List 4 of the new HTML5 <i>input types</i> .
		[3 marks]
c)	Write a	an HTML5 code to create the following form.
	•	It has a field for the user to enter a favorite number which has to be between 1 and 10 with 7 as the default value.
	•	The form must include an optional question that reveals the Favorite Fruit

- selection when the user click on the text "Optional question:".
- The Favorite Fruit field must have the *autocomplete* feature that includes "Apple", "Banana", and "Cherry" as the available options.

# TIS2151/TIC2211 WEB APPLICATION DEVELOPMENT / INTERNET COMPUTING 12 OCT 2017

Favorite Number: 7 (Enter a number between 1 and 10)				
▼ Optional question:				
Favorite Fruit:				
Select a fruit				
Apple				
Banana				
Cherry				

[5 marks]

Continue...

a)	Fill in	the blanks in each of the following statements related to CSS in HTML5.
	i.	If the user defines font-size in a user style sheet, the author style has precedence over the user style.
	ii.	The attribute defines the number of pixels that the box
	:::	shadow will appear to the left or right of the box.
	iii.	Styles may be defined by a user, an author or a user agent. An example of a user agent is
	iv.	In order to enable the self-validation feature for input type tel, the
		attribute must be specified in the <input/> element.
		[2 marks]
b)	CSS c	allows programmer to specify the presentation of elements on a web page and either inline CSS, embedded CSS or external CSS. Explain how external could be applied to HTML documents and explain the advantage of using al CSS.
		[2 marks]
c)	Write t	he CSS rules to achieve the following:
	i.	Display all hyperlinks in red without underlining them.
	ii.	Set the font size of $\langle ul \rangle$ elements that are nested in an $\langle ol \rangle$ element to only 20% of the size of the base font of the system.
	iii.	Create a style class called "BlueBold" that sets the font color of < <i>li&gt;</i> elements to blue and also make it bold.
		[3 marks]
d) (	Comple as show	ete the embedded CSS code in the HTML5 code below to display the text on here.
		The text at the end of this sentence is in superscript
		The text at the end of this sentence is in subscript
		The text at the end of this sentence is shifted right

```
<html>
  <head>
   <meta charset = "utf-8">
   <title>Relative Positioning</title>
   <style type = "text/css">
   </style>
 </head>
 <body>
   The text at the end of this sentence
     <span class = "super">is in superscript</span>.
   The text at the end of this sentence
     <span class = "sub">is in subscript</span>.
   The text at the end of this sentence
    <span class = "shiftright">is shifted right</span>.
 </body>
</html>
```

[3 marks]

a)	Fill ii HTM	n the blanks in each of the fol L5.	lowing statements related to	JavaScript in
	i. ii.	Every array in JavaScript know The window object's	vs its own length using method displays a dialog in	attribute.
		user can type a value		ico winon the

iii. When using the method Math.random, the \_\_\_\_\_\_ factor determines the size of the random value range while the \_\_\_\_\_ number is added to the result to the determine where the range begins.

[2 marks]

b) Using HTML and Javascript, create the following form to get 2 inputs from the user, i.e. current meter reading *curr*, and previous reading *prev*. Once the the "Calculate Bill" button is clicked, a function called *input()* will be called.

[2 marks]

The function *input()*:

- gets the current and previous reading from the form, curr and prev
- alert the user to reenter the values if current reading is smaller than previous reading, otherwise call the function *calculate()* and send current and previous reading

[3.5 marks]

The function *calculate()*:

- Calculates the unit used (current-previous)
- Identify the price per unit based on the following table using if..else statement

Units used	Price per unit
0-500	\$0.02
>500	\$0.04

Calculate the total bill and display it using an alert box.

[2.5 marks]

Bill ×

# **Electric Meter Reading**

Current	Reading:	
Current	Keading:	

Previous Reading:

Calculate Bill

a)	What	are the details excluded during wireframe design of a webpage?
	,	[1 marks]
b)	List d	own the two types of wireframe and explain each of them.
		[2 marks]
c)	Write of the	a PHP function called <i>multiply</i> that takes in 2 values and return the product 2 values. Call that function to display the product of 1 and 16.
		[2 marks]
d)	Assun passw	ne that you have created a database "FCI" with username "admin" and ord "123". Write PHP scripts to do the following:
	i.	Connect to the MySQL database server and select "FCI" database.
		[1 mark]
	ii.	Create a table named "students" with 3 fields for First Name, Last Name and age.
		[1 mark]
	iii.	Insert the following data into the table "students": First Name: Aniq, Last Name: Imran, Age: 18.
		[2 marks]
	iv.	Update the Age field for the data in part (iii) above from 18 to 20.
		[1 mark]